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DATE: Monday, June 20, 2005

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	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L9	l5 and nitroxyl	1
<input type="checkbox"/>	L8	(filters) with (food)	4856
<input type="checkbox"/>	L7	l1 with l5	0
<input type="checkbox"/>	L6	L5 and l2	294
<input type="checkbox"/>	L5	(filters) with (food industry)	297
<input type="checkbox"/>	L4	nitroxonium	2
<input type="checkbox"/>	L3	nitrooxonium	0
<input type="checkbox"/>	L2	(halogen-free) or (halogen free) or (not halogen)	31423119
<input type="checkbox"/>	L1	halogen-free	5165

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6518419 B1

L9: Entry 1 of 1

File: USPT

Feb 11, 2003

US-PAT-NO: 6518419

DOCUMENT-IDENTIFIER: US 6518419 B1

TITLE: Process for selective oxidation of primary alcohols

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Der Lugt; Jan Pieter	Amersfoort			NL
Jetten; Jan Matthijs	Zeist			NL
Besemer; Arie Cornelis	Amerongen			NL
Van Doren; Hendrik Arend	Amersfoort			NL

US-CL-CURRENT: 536/105; 536/123.1, 536/124, 554/13, 562/419, 562/565, 568/432,
568/436, 568/437, 568/484

ABSTRACT:

Primary alcohols, especially in carbohydrates, can be selectively oxidized to aldehydes and carboxylic acids in a low-halogen process by using a peracid in the presence of a catalytic amount of a di-tertiary-alkyl nitroxyl (TEMPO) and a catalytic amount of halide. The halide is preferably bromide and the process can be carried out at nearly neutral to moderately alkaline pH (5-11). The peracid can be produced or regenerated by means of hydrogen peroxide or oxygen. The process is advantageous for producing uronic acids and for introducing aldehyde groups which are suitable for crosslinking and derivatization.

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Term	Documents
NITROXYL	1392

NITROXYLS	137
(5 AND NITROXYL).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	1
(L5 AND NITROXYL).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	1

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